

### ABSTRACT

System, method and computer-readable medium containing instructions for providing AV signals with open or closed captioning information. The system includes a speech-to-text processing system coupled to a signal separation  
5 processor and a signal combination processor for providing automated captioning for video broadcasts contained in AV signals. The method includes separating an audio signal from an AV signal, converting the audio signal to text data, encoding the original AV signal with the converted text data to produce a captioned AV  
10 signal and recording and displaying the captioned AV signal. The system may be mobile and portable and may be used in a classroom environment for producing recorded captioned lectures and used for broadcasting live, captioned lectures. Further, the system may automatically translate spoken words in a first language into words in a second language and include the translated words in the captioning  
15 information.

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